

AMENDMENT # 5DEAD CREEK/SANGET
LPC# 16002.00005

MEMORANDUM

E&E

DATE: SEPTEMBER 24, 1987

TO: Contract Administrator

FROM: BILL CHILD, DIVISION MANAGER, LPC

SUBJECT: Contract Information For (New Contract) (Amendment to Existing Contract)

1. Name of Contractor ECOLOGY & ENVIRONMENT, INC.
2. Contractor's Mailing Address:
 - a. Street and City 195 SUGG ROAD P.O. BOX D
 - b. State and Zip BUFFALO, NEW YORK 14225
3. FEIN/SSN (if available) -
4. Funding Source (Circle applicable alphabetic character, i.e., a, b) and complete blanks.
 - a. State-General Revenue
 1. Account Code - 0 0 1
 2. Section or Budget Code -
 - b. Federal-U.S. EPA
 1. Grant No. _____
 2. Authorized by Section No. _____ of P.L. _____
 3. Title of Law _____
 4. Account Code _____
 5. Section or Budget Code _____
5. Agency Contract Manager BILL RADLINSKI
6. Execution Date (Proposed) 09/04/87
7. Termination Date 02/15/88
8. Amount (Total) \$ 21,761.00 INCREASE \$1,341,685.00 TOTAL
9. Work to be Performed (Circle applicable alphabetic character)
 - a. Existing contract's Work to be Performed clause is adequate.
 - b. Copy of existing contract's Work to be Performed clause is attached with desired modifications.
 - c. New Work to be Performed clause is attached.
10. Contract Period (Circle applicable alphabetic character)
 - a. Copy of existing contract's Contract Period clause is attached with desired modifications.
 - b. New Contract Period clause is attached.
11. Costs (Circle applicable alphabetic character)
 - a. Existing contract's Costs clause is adequate.
 - b. Copy of existing contract's Costs clause is attached with desired modifications.
12. Other Applicable Clauses:
13. Equivalent Position Title EXEC IV
14. Section, Unit DLPC, PDU
15. Telephone Number 782-9898

DATE:

SEPTEMBER 25, 1987

TO:

Brian Krasner, Bureau of the Budget
601 Stratton Office Building, Springfield, Illinois

FROM:

John Steller

SUBJECT:

Contract Amendment - Dead Creek Sites

- . STATEMENT OF THE PROBLEM TO BE SOLVED: THE SCOPE OF WORK CHANGE. ADDED BY THIS AMENDMENT INVOLVE THE DISPOSAL OF DRILL CUTTINGS AND WATER ACCUMULATED DURING THE REMEDIAL INVESTIGATION, THE RESAMPLING OF 4 WELLS BECAUSE THE ORIGINALS WERE BROKEN, AND THE PERFORMANCE OF HYDRAULIC CONDUCTIVITY TESTS OF AQUIFER MATERIALS AT 10 DIFFERENT WELLS.
- . CONSULTANT USE JUSTIFICATION:

- . BENEFITS EXPECTED FROM THE CONSULTING EFFORT, I.E., TANGIBLE DOLLAR SAVINGS, OR INTANGIBLE BENEFITS FULLY EXPLAINED:

- . CONTRACTORS SUBMITTING PROPOSALS:

- . CONTRACTOR SELECTED:

ECOLOGY & ENVIRONMENT, INC.

- . ANTICIPATED COST:

\$21,761.19 INCREASE

- . AGENCY CONTACT:

SHEILA FITE



DATE: September 25, 1987

TO: Division File and Jeff Larson

FROM: John Steller

SUBJECT: Dead Creek Site/St. Clair County
LPC #1630200005
Superfund/Fiscal
Cost Analysis - Ecology & Environment

Pursuant to 40 CFR 33.290(a) and 44 Ill. Adm. Code 550.311, I performed a cost analysis on increases to the contractually agreed to cost plus fixed fee for the Dead Creek Sites (Sauget) project resulting from Agency approved scope of work changes as set forth in the Contractor's (Ecology & Environment, Inc.) letter dated March 11, 1987 as approved and clarified by the Agency's letters dated January 8, 1987 and July 2, 1987 and the Contractor's letter dated April 8, 1987 as approved by the Agency's letter dated April 28, 1987 and the Contractor's letters dated May 8, 1987 and September 11, 1987 as approved by the Agency's letter dated May 21, 1987. In addition, I discussed the scope of work changes with the Project Manager, Jeff Larson, to ensure that additional work was necessary and authorized and that the Contractor's charges were reasonable in his opinion. It was his opinion that the work was necessary and that the costs were reasonable.

The analysis disclosed the Contractor had used the provisional FY 87 fringe (25%), overhead (65%), and S, G, & A (28%) rates instead of E. & E.'s actual FY 87 rates of fringe (.25806), overhead (.5035), and S, G, & A (.3252). This incorrect usage of rates resulted in a cost undercharge of \$322.26. In addition, the Contractor in my opinion, misapplied fee percentages. The Contractor applied a rate of 13% against labor related costs and 5% against non-labor related costs. The Contractor should have used 17% against labor, 12% against overhead, and 6% against Other Direct Cost charges. This inappropriate application of fee percentages resulted in a fee undercharge by the Contractor of \$271.13. I adjusted both the cost and fee to reflect the true calculations.

I also compared the labor rates used by the Contractor with the Contractor's contractually approved rate sheets for FY 87 to ascertain if they were correct. All rates fell within the authorized cost plus fixed fee rates.

In my opinion, the costs and fees charged by the Contractor for the scope of work changes set forth in the first paragraph above are authorized, reasonable and allowable.

4/9/87
JL

Read Truck Log to Analyze for Amendment #5 Ecology & Environment

TRUCK	Arrive- 177	Leave 1984	LABOR HOURS	LABOR RATE	RATE (per hour)	WORK DAYS	TRUCK COST	FEE (1.17)	PRICE COST	INVOICED COST	50% COST	FEE (1.12)	O.D.C.	FEE (1.06)	TOTAL COST	TOTAL FEE	TOTAL AMOUNT
Drumhead of CUTTINGS & MORE MATERIALS - FROM TRUCKS - TRUCK	04/17/87 04/18/87	04/17/87 04/18/87	Senior Junior	BYES BYES	12345 78901	20750 13362	31805 20285	17604 19714	15901.8 14624	321.34 14200	2554.02	161.50	6435.22 176.911	6.2234 27249			
Drilling SUBTOTALS							2018.42	343.6	5008	1272.24	3004.58	162.42	3504.02	151.50	8445.12	938.03	9380
Hydraulic LUBRICANTS 04/18/87			Senior ASSISTANT	BYES YES	8990 10242	14417 11844	22188 18131	5445 14508	1901.25 13218	322.15 12200	2110.00	126.40	5637.53 1761.17	592.80 344.40			
TRUCK SUBTOTALS							1584.46	265.61	102.19	989.68	2333.40	447.25	2119.00	126.40	7344.21	808.20	8230
Removal of SUGAR & 1 Island	04/18/87 04/19/87	04/18/87 04/19/87											116.00		4160.00		4160
TOTALS							3502.88	609.21	924.07	2262.92	4332.98	910.53	6794.02	278.10	19945.82	1778.23	21724

TRUCK MARK LEGEND:

- 02 - Heavy Loader
- 03 - Contracting LEADER
- 04 - Actually below Contracted notes

REMARKS:
CONTRACTOR USED OLD FRINGE OVERHEAD AND SIGN RATES WHICH
RESULTED IN A FAST UNDERCHARGE OF \$22.00. IN ADDITION,
THE CONTRACTOR APPLIED INCORRECT FEE PERCENTAGES WHICH
RESULTED IN A FEE UNDERCHARGE OF \$771.13.



DATE: August 24, 1987
TO: John Steller
FROM: Jeff Larson, L.A.
SUBJECT: Justification for Amendment

L1630200005 - St. Clair Co.
Sauget Sites, Sauget
Superfund - Fiscal

I am notifying you of an increase in cost to the Remedial Investigation phase of the above referenced project. Alternations in the S.O.W. and L.O.E. as approved by the project manager are necessary to insure quality. The generated data has resulted in the cost increase.

An amendment is necessary to allow payment to the consultant firm of Ecology & Environment for the aforementioned work. Support information detailing costs are included in the Fiscal File and will be identified in the amendment. Please initiate action on this procedure as soon as possible.

JL:kh/1-1

Amendment #5

2/25/87

ECOLOGY and ENVIRONMENT, INC.
195 SUGG ROAD
Post Office Box D
BUFFALO, NEW YORK 14225

RE: Dead Creek Project, Sauget and
Cahokia, Illinois (LPC #1600200005).

1. Paragraph D(1) (See Amendment #
of the Agreement is hereby
eliminated and struck in its
entirety and the following
Paragraph D(1) is inserted in
its place:

- *1. The Contractor shall furnish the necessary personnel, materials, services, facilities and otherwise do all things necessary for or incident to the performance of the work at the Dead Creek Project, Sauget and Cahokia, Illinois (LPC #1600200005) (hereinafter designated as "Site") as set forth in:
 - a. The Contractor's Proposal dated May 20, 1985;
 - b. The Agency's Request for Proposal dated April 3, 1985;
 - c. The Contractor's Revised Rate Schedule dated November 26, 1985;
 - d. The Contractor's Letter dated February 18, 1986; and
 - e. The Agency's letter authorizing a re-evaluation of the present Statement of Work, dated July 11, 1986;
 - f. The Contractor's Proposal to Implement a Revised Scope of Work, dated August 4, 1986 as amended by the Contractor's revised cost estimate letter, dated August 26, 1986;
 - g. The Contractor's letter, dated September 15, 1986;
 - h. The Agency's letter, dated September 16, 1986;
 - i. The Contractor's letter of cost comparisons, dated August 20, 1986;
 - j. The Contractor's letter, dated November 25, 1986; and
-

- k. The Contractor's letter and cost proposal, as amended ~~dated March 15, 1987~~ as requested by the Agency's letter dated January 8, 1987 and as approved by the Agency's letter dated July 5, 1987;
- l. The Contractor's letter and cost proposal as amended dated April 8, 1987 as approved by the Agency's letter dated April 28, 1987;
- m. The Contractor's letters dated May 8, 1987 and September 11, 1987 as agreed to by the Agency's letter dated May 21, 1987; and
- n. This contract.

2. Paragraph D(2) (See Amendment #4) of the Agreement is hereby eliminated and struck in its entirety and the following Paragraph D(2) is inserted in its place:

2. The documents cited in Paragraph D(1)(a) through D(1)(d) ^(m) are incorporated by reference into this contract and made a part hereof. If there is a conflict between the terms and provisions of this contract and the documents cited in Paragraph D(1)(a) through D(1)(d), the terms and provisions of this contract shall control. ^(m)

3. Paragraph E(1) (See Amendment of the Agreement) is hereby eliminated and struck in its entirety and the following Paragraph E(1) is inserted in its place:

1. This is a cost plus fixed fee contract with a ceiling price for all work performed under this contract of ~~\$1,319,324.00.~~

\$1,391,685.00.

4. Paragraph E(2)(a) and Paragraph E(2)(b) (See Amendment #1) of the agreement are hereby eliminated and struck in their entirety and the following Paragraph E(2)(a) and Paragraph E(2)(b) are inserted in their places:

2. a. The contractor shall perform all work under this contract at the rates and in accordance with the Schedule of Task Completion specified in the Contractor's proposal dated May 20, 1985, as amended by those documents listed in Paragraph D(1)(c) through D(1)(d) which were incorporated into this contract by Paragraph D(2). ^(m)
- b. The Contractor shall be reimbursed at the rates specified in the Contractor's Proposal dated May 20, 1985 as amended by those documents listed in Paragraph D(1)(b) through D(1)(d) which were incorporated into this contract by Paragraph D(2). ^(m)

5. Paragraph E(3)(a) and Paragraph E(3)(b) (See Amendment #4) of the agreement are hereby eliminated and struck in their entirety and the following Paragraph E(3)(a) and Paragraph E(3)(b) are inserted in their places:

3. a. The cost limit for the performance of all work under this contract is ~~\$1,232,070.00~~, this amount is subject to change by formal contract amendment only. ^{SATISFACTORY} ~~\$1,232,070.00~~ **\$1,253,934.00**
- b. The fixed fee limit for the performance of all work under this contract is ~~\$86,954.00~~, this amount is subject to change only by a material change in the scope of work and by formal contract amendment. ^{SATISFACTORY} ~~\$86,954.00~~ **\$87,751.00**

6. All other agreements shall remain in force.

L1630200005 -- St. Clair County
 Sauget -- Sauget Sites
 Superfund -- Fiscal

SAUGET-SAUGET SITES SCHEDULE UPDATE

Federal FY87 Quarter 4
 State FY88 Quarter 1

<u>Remedial Investigation</u>		<u>Proposed Schedule</u>	<u>Actual Schedule</u>	<u>Final Approval</u>
<u>Task No.</u>	<u>Description</u>			
I TASK 1	MEETINGS			
	A. Initial	12/20/85	09/25/85	
	B. Secondary	03/17/86	03/25/86	
II TASK 2	WORK PLAN			
	A. Investigative Support	02/17/86	08/25/86	08/25/86
	B. Definition of Objectives & SOW	05/16/86	02/17/86	
	C. Site Sampling Plan (SSP)	05/16/86	05/16/86	05/16/86
	1. Draft			
	a. submittal		02/17/86	
	b. review complete			
	2. Final	05/16/86	05/16/86	05/16/86
	a. submittal			
	b. review complete			
	D. Health & Safety Plan (HSP)			
	1. Draft			
	a. submittal	02/17/86	02/17/86	
	b. review complete			
	2. Final			
	a. submittal	05/16/86	05/16/86	
	b. review complete			05/16/86
	E. Quality Assurance Project Plan (QAPP)			
	1. Draft			
	a. submittal	02/17/86	02/17/86	
	b. review complete			
	2. Final			
	a. submittal	05/17/86	05/17/86	
	b. review complete			05/17/86
	3. Air Monitoring Supplemental QAPP			
	a. submittal draft	08/23/87	04/23/87	
	b. review complete	04/23/87	05/29/87	
	c. final complete	05/23/87	05/29/87	05/29/87
	F. Community Relations Plan (CRP)			
	1. Draft			
	a. submittal	02/17/86	02/17/86	
	b. review complete			

Remedial Investigation		Proposed	Actual	Final
Task No.	Description	Schedule	Schedule	Approval
	2. Final			
	a. submittal	05/17/86	05/17/86	
	b. review complete			05/17/86
	G. Permitting Requirements Plan			
	1. Draft			
	a. submittal			
	b. review complete			
	2. Final			
	a. submittal			
	b. review complete			
III TASK 3	ASSOCIATED SUPPORT	01/24/86	03/25/86	03/25/86
IV TASK 4	ADDITIONAL DATA GATHERING- EXISTING DATA REVIEW & EVALUATION	01/24/86	02/22/86	02/22/86
V TASK 5	DESCRIPTION OF CURRENT SITUATION	03/14/86	07/17/86	07/17/86
VI TASK 6	INTERIM PRELIMINARY REPORT	10/15/86	10/13/86	10/15/86

VII TASK 7 (Suspended Re: Task 20- 26)	SITE INVESTIGATION TASK 20 Addition Req	05/27/88		
	TASK 21 Revised Scope Development			
	A. Submittal	08/01/86	08/05/86	
	B. Review Complete	08/15/86	08/13/86	08/13/86
	TASK 22 Work Plan Revisions	03/27/87	5/06/87	5/04/87
	A. Geophysical Surveys			
	1. E.M. Conductivity			
	a. field work	10/02/85		
	b. evaluate data			
	2. Magnetometry			
	a. field work	10/15/85		
	b. evaluate data			
	3. Seismic Refraction			
	a. field work	10/30/85		
	b. evaluate data			
	B. SOILS INVESTIGATION			
	1. Soil Gas Testing			
	a. field work	10/21/86	10/21/86	
	b. evaluate data	11/21/86		
	2. Surface Soil Sampling			
	a. field work	11/10/86	11/10/86	
	b. evaluate data	12/10/86		

<u>Remedial Investigation</u>		Proposed	Actual	Final
Task No.	Description	Schedule	Schedule	Approval
	3. Subsurface Soil Sampling			
	a. field work	11/17/86	11/17/86	
	b. evaluate data	12/17/86		
	C. WATER INVESTIGATION			
	1. Surface Water/Sediment Sampling			
	a. field work	11/05/86	12/05/86	
	b. evaluate data	12/05/86	08/15/87	
	2. Ground Water Sampling			
	a. field work	03/02/87	03/02/87	
	b. evaluate data	04/21/87	08/15/87	
	TASK 23 Water Supply Search			
	A. Residential Well Sampling			
	1. Field Work	05/30/87		
	2. Evaluate Data	05/30/87		
	TASK 24 Air Monitoring			
	A. Phase I			
	1. Field Work	04/30/87	7/23/87	
	2. Evaluate Data	05/30/87	7/22/87	
	B. Phase II (If Applicable)			
	1. Field Work			
	2. Evaluate Data			
	TASK 25 Additional Investigations	05/30/87	7/23/87	
VIII TASK 8	PRELIMINARY REMEDIAL TECHNOLOGIES			
	A. Draft			
	1. Submittal	10/15/86	10/13/86	
	2. Review Completed	10/29/86	10/30/86	10/30/86
	B. Final			
	1. Submittal	10/15/86	10/13/86	
	2. Review Completed	10/29/86	10/30/86	10/30/86
IX TASK 9	SITE INVESTIGATION ANALYSIS			
(Suspended	TASK 26 Final Report-HRS/RI			
Re: Task 26,27)				
	A. Draft			
	1. Submittal	09/11/87		
	2. Review Completed	09/30/87		
	B. Final			
	1. Submittal	10/30/87		
	2. Review Completed	11/30/87		

<u>Remedial Investigation</u>		Proposed	Actual	Final
<u>Task No.</u>	<u>Description</u>	<u>Schedule</u>	<u>Schedule</u>	<u>Approval</u>

X TASK 10 REMEDIAL INVESTIGATION REPORT
 (Suspended TASK 11 Additional Requirements
 Re: Task 11)

10/15/86

A. Project Reporting

Monthly

B. Review Meeting

9/29/87

C. Community Relations

FEASIBILITY STUDY

(PLACED ON HOLD - FUNDS & SCHEDULE MAY BE
MORE HELPFUL TO HRS.)

Task No.	Description	Proposed Schedule	Actual Schedule	Final Approval
I	TASK 12 Describe Proposed Response			
	A. Submittal	09/11/87		
	B. Review Completed			
II	TASK 13 Preliminary Remedial Technologies			
III	TASK 14 Development of Alternatives			
	A. Submittal	10/19/87		
	B. Review Complete			
IV	TASK 15 Initial Screening of Alternatives			
	A. Deliverable for DRAR Evaluation			
	1. Submittal	10/29/87		
	2. Review Complete			
	B. Bench Scale - Lab Studies			
	1. Submittal	11/20/87		
	2. Review Complete			
V	TASK 16 Detailed Evaluation of Alternatives			
	A. Submittal	12/14/87		
	B. Review Complete			
	TASK 17 Final Report-FS			
	A. Draft			
	1. Submittal	01/29/88		
	2. Review Complete			
	3. Public Meeting & Comment			
	B. Final			
	1. Submittal	03/15/88		
	2. Review Complete			

JL:llh:sp2060g/1-5

L1630200005 -- St. Clair County

SAUGET-SAUGET SITES COST UPDATE

Federal FY87 Quarter 2
State FY87 Quarter 3

<u>Remedial Investigation</u> Task No.	Description	Original Proposed Cost	Actual Cost	% of Budget	±Cost
I TASK 1	MEETINGS	4,492	5,211	116%	•(719)
II TASK 2	WORK PLAN	14,549	42,922	295%	(29,092)
	A. Investigative Support				
	B. Definition of Objectives & SOW				
	C. Site Sampling Plan (SSP)				
	D. Health & Safety Plan (HSP)				
	E. Quality Assurance Project Plan (QAPP)				
	1. Air Monitoring Supplemental QAPP				
	2. Fish Flesh Supplemental QAPP				
	F. Community Relations Plan (CRP)				
	G. Permitting Requirements Plan				
III TASK 3	ASSOCIATED SUPPORT	10,576	10,576	100%	0
IV TASK 4	ADDITIONAL DATA GATHERING- EXISTING DATA REVIEW & EVALUATION	13,323	15,189	114%	(1866)
V TASK 5	DESCRIPTION OF CURRENT SITUATION	3,863	28,202	730%	(24,339)
VI TASK 6	INTERIM PRELIMINARY REPORT	3,858	14,082	365%	(10,224)

<u>Remedial Investigation</u>		Original			
<u>Task No.</u>	<u>Description</u>	<u>Proposed</u> <u>Cost</u>	<u>Actual</u> <u>Cost</u>	<u>% of</u> <u>Budget</u>	<u>±Cost</u>
<u>PRIMARY REMEDIAL INVESTIGATION TASKS</u>					
VII TASK 7 (Suspended Re: Task 20-26)	SITE INVESTIGATION	118,063	118,063	100%	0
	TASK 20 Add. Req. New Scope	13,918	17,816 18,862	12% 128%	(444)
	TASK 21 Revised Scope Development	20,000	20,000	100%	0
	TASK 22 Work Plan Revisions	18,197	15,104	83%	3093
	A. Geophysical Surveys				
	1. E.M. Conductivity				
	2. Magnetometry				
	3. Seismic Refraction				
	B. SOILS INVESTIGATION				
	1. Soil Gas Testing				
	2. Surface Soil Sampling				
	3. Subsurface Soil Sampling				
	C. WATER INVESTIGATION				
	1. Surface Water/Sediment Sampling				
	2. Ground Water Sampling				
	TASK 23 Water Supply Search				
	A. Residential Well Sampling				
	TASK 24 Air Monitoring				
	A. Phase I	38,757	10,852 39,176	28% 101%	(419)
	B. Phase II (If Applicable)				
	TASK 25 Additional Investigations	442,908 444,893	381,920 380,901	86%	62,007
VIII TASK 8	PRELIMINARY REMEDIAL TECHNOLOGIES	3,979	5,253	132%	(1274)
IX TASK 9 (Suspended Re: Task 26, 27)	SITE INVESTIGATION ANALYSIS				
	TASK 26 Final Report-RI	81,166	24,550 29,331	30% 36%	51,835

<u>Remedial Investigation</u>		Original			
Task No.	Description	Proposed	Actual	% of	=Cost
		Cost	Cost	Budget	
<u>PRIMARY REMEDIAL INVESTIGATION TASKS</u>					
	TASK 27 Analytical Services		335,979		
	Remedial Investigation Report	341,376	262,060	77% 99%	539
X TASK 10	TASK 28 Waste Disposal	9220.	461	5%	8759
(Suspended	TASK 11 Additional Requirements	7,186	7,330	102%	(144)
Re: Task 11)					
	A. Project Reporting				
	B. Review Meeting				
	C. Community Relations				
TOTAL	REMEDIAL INV.	1,127,396	979,730	116.03%	
		1,145,431	* 1,086,642	-	58,789

* EXPENDITURES INCLUDING FEES

FEASIBILITY STUDY

(PLACED ON HOLD, FUNDS may be more useful
to completing a thorough HRS.)

Task No.	Description	Proposed Cost	Actual Cost	% of Budget	±Cost
I	TASK 12 Describe Proposed Response				
II	TASK 13 Preliminary Remedial Technologies				
III	TASK 14 Development of Alternatives				
IV	TASK 15 Initial Screening of Alternatives				
	A. Deliverable for DRAR Evaluation				
	B. Bench Scale - Lab Studies				
V	TASK 16 Detailed Evaluation of Alternatives				
	TASK 17 Final Report-FS				
	Total		<u>174,493</u>		
			102,520		
	Total Project				\$1,319,924

JL:11h:sp2062g/1-4

cc: Jeff Larson
John Steller
Terry Ayers
Division File



DATE: August 24, 1987
TO: John Steller
FROM: Jeff Larson, L.A.
SUBJECT: Justification for Amendment

L1630200005 - St. Clair Co.
Sauget Sites, Sauget
Superfund - Fiscal

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An amendment is necessary to allow payment to the consultant firm of Ecology & Environment for the aforementioned work. Support information detailing costs are included in the Fiscal File and will be identified in the amendment. Please initiate action on this procedure as soon as possible.

JL:kh/l-1